ABSTRACT

A transmission power control apparatus which reduces the number of steps required for adjustments of the transmission power control apparatus and performs transmission power control with high accuracy in a wide dynamic range. The apparatus has a first variable amplifying circuit (122) with the resolution of 1dB and a second variable amplifying circuit (123) with the resolution of 0.1dB, where a correction value calculating section (106) calculates a correction value to compensate for deterioration in the accuracy of transmission power caused by a change in environment due to frequency characteristics and temperature characteristics and another correction value to compensate for error in transmission power, a transmission power calculating section (107) calculates transmission power obtained by correcting with the correction value specified transmission power to output to a communicating party based on the received signal, and a first set value calculating section (108) and a second set value calculating section (109) calculate gain values to set on the first variable amplifying circuit (122) and second variable amplifying circuit (123) based on the corrected transmission power, respectively.